

CLAIMS

What is claimed is:

1. An apparatus for servicing a power-operated device,
5 comprising:
 a tool holder, permanently coupled to a retractable
pull cord, said retractable pull cord incorporated into a
manual starter of said power-operated device; and
 at least one service tool coupled to said tool holder;
10 and
 means for locking said retractable pull cord in a
retracted state.
2. The apparatus as recited in claim 1, wherein at least
15 one end of said tool holder forms a socket wrench.
3. The apparatus as recited in claim 1, wherein at least
one end of said tool holder has an open cavity for
receiving a socket wrench insert.
- 20 4. The apparatus as recited in claim 1, wherein at least
one end of said tool holder has a notch.
5. The apparatus as recited in claim 1, wherein said at
25 least one service tool is pivotally mounted on said tool
holder.
6. The apparatus as recited in claim 5, wherein said at
least one service tool is any of the group consisting of a
30 screwdriver, a wrench, a file, a knife, a feeler gauge, a
brush, and a pick.

7. The apparatus as recited in claim 1, wherein said means for locking said retractable pull cord further comprises:

a first hollow body having an open end;

a second body movably disposed in said first body;

5 a coil spring positioned between said first body and said second body, whereby a moving force is exerted on said second body, and wherein said retractable pull cord passes through a conduit in said first and said second bodies.

10 8. The apparatus as recited in claim 7, wherein said moving force exerted on said second body is causing any of the group consisting of lateral movement and rotating movement.

9. An apparatus for servicing a power-operated device,
15 comprising:

a tool holder, permanently coupled to a retractable pull cord, said retractable pull cord incorporated into a manual starter of said power-operated device;

at least one service tool coupled to said tool holder;

20 and

a sheath for receiving said tool holder; and

a means for locking said retractable pull cord in a retracted state.

25 10. The apparatus as recited in claim 9, wherein at least one end of said tool holder forms a socket wrench.

11. The apparatus as recited in claim 9, wherein at least one end of said tool holder has an open cavity for
30 receiving a socket wrench insert.

12. The apparatus as recited in claim 9, wherein at least one end of said tool holder has a notch.

13. The apparatus as recited in claim 9, wherein said at least one service tool is pivotally mounted on said tool holder.

14. The apparatus as recited in claim 13, wherein said at least one service tool is any of the group consisting of a screwdriver, a wrench, a file, a knife, a feeler gauge, a brush, and a pick.

15. The apparatus as recited in claim 9, wherein said means for locking said retractable pull cord is a V-shaped notch in said sheath.

16. The apparatus as recited in claim 9, wherein said means for locking said retractable pull cord further comprises:

a first and a second pivot axis fixed in a side of said sheath, said second pivot axis parallel to said first pivot axis; and

a first body having a plurality of teeth, said first body pivotally mounted on said first pivot axis; and

a second body having a plurality of teeth, said second body pivotally mounted on said second pivot axis, said plurality of teeth of said second body opposing said plurality of teeth of said first body; and

a first coil spring positioned between said first body and said sheath, whereby a lateral force is exerted on said first body, toward said second body; and

a second coil spring positioned between said second body and said sheath, whereby a lateral force is exerted on said second body, toward said first body.

5 17. The apparatus as recited in claim 9, wherein said means for locking said retractable pull cord further comprises:

a first hollow body having an open end, said hollow body positioned in said sheath;

a second body movably disposed in said first body;

10 a coil spring positioned between said first body and said second body, whereby a moving force is exerted on said second body, and wherein said retractable pull cord passes through a conduit in said first and said second bodies.

15 18. The apparatus as recited in claim 17, wherein said moving force exerted on said second body is causing any of the group consisting of lateral movement and rotating movement.

20 19. An apparatus for servicing a power-operated device, comprising:

a tool holder, permanently coupled to a retractable pull cord, said retractable pull cord incorporated into a manual starter of said power-operated device;

25 at least one service tool coupled to said tool holder; means for reducing the recoil of said manual starter, said recoil reducing means coupled to said tool holder; and

a sheath for receiving said tool holder; and

means for locking said retractable pull cord in a
30 retracted state.

20. The apparatus as recited in claim 19, wherein at least one end of said tool holder forms a socket wrench.

21. The apparatus as recited in claim 19, wherein at least one end of said tool holder has an open cavity for receiving a socket wrench insert.

22. The apparatus as recited in claim 19, wherein at least one end of said tool holder has a notch.

10

23. The apparatus as recited in claim 19, wherein said at least one service tool is pivotally mounted on said tool holder.

15

24. The apparatus as recited in claim 23, wherein said at least one service tool is any of the group consisting of a screwdriver, a wrench, a file, a knife, a feeler gauge, a brush, and a pick.

20

25. The apparatus as recited in claim 19, wherein said means for reducing the recoil of said manual starter further comprises:

25

a deformable body partially disposed in said tool holder wherein said pull cord is permanently coupled to said deformable body and whereby an increase in tension on said pull cord will cause said deformable body to stretch in the direction of said tension.

30

26. The apparatus as recited in claim 19, wherein said means for reducing the recoil of said manual starter further comprises:

a cylindrical body movably disposed in said tool holder;

a coil spring surrounding a segment of said cylindrical body and contained within said tool holder
5 wherein said pull cord is permanently coupled to said cylindrical body and whereby an increase in tension on said pull cord will cause said cylindrical body to move in the direction of said tension.

10 27. The apparatus as recited in claim 19, wherein said means for locking said retractable pull cord is a V-shaped notch in said sheath.

28. The apparatus as recited in claim 19, wherein said
15 means for locking said retractable pull cord further comprises:

a first hollow body having an open end;
a second body movably disposed in said first body;
a coil spring positioned between said first body and
20 said second body, whereby a moving force is exerted on said second body, and wherein said retractable pull cord passes through a conduit in said first and said second bodies.

29. The apparatus as recited in claim 28, wherein said
25 moving force exerted on said second body is causing any of the group consisting of lateral movement and rotating movement.